Switching Missions While Glider Is Deployed

Revised 5 May 2104, ARH

Note: This is a general procedures document and assumes that all glider parameters are nominal, and that we are not in a recovery mode, suffering from remora attachment or dealing with equipment failures. These procedures are to be used only by trained and qualified glider operations personnel. Untrained personnel should not be expected to be able to follow this checklist by ‘rote’ and successfully complete the process as there are many variables that glider operators need to deal with on a situation by situation basis.

1. Decide which mission will be next run: mmlt30, mmlt120, mmlt180, etc.
2. Take note of the glider’s current position
3. Obtain a copy of the current goto\_L10.ma file.
4. Edit the file and substitute the waypoint number of the WPT you want him to go to next after the new mission starts for ‘0’ in the following line;

**b\_arg: initial\_wpt(enum) 0**

1. Save the file.
2. Place the revised goto\_L10.ma file in the gliders dockserver ‘to-glider’ folder using GMC-FTP.
3. Ensure that the script that is active when he next surfaces includes the commands for him to download any files he finds in the dockserver to-glider folder. That is: “<action type="glider" command="!dockzr \*.\*"> or that the title of the script or its header describes the script as one that tells the glider to get all dock files. Typically this means, for Mote, the script sbd\_plus\_getadockfiles\_OPD\_TBD2.xml.
4. When the glider surfaces, let the script run to see the warnings, download the sbd and tbd files, and get the revised goto file from dockserver. Then pause the script, preferably before its cntrl-F command runs [though that’s okay – it just loses a little time].
5. Cntrl-C the glider out of its present mission.
6. Once you have the glider in gliderdos, run the mission CHKWPTS.mi. This mission will read the new goto file, drop iridium while it updates its GPS fix, then call you back. It will display on your console the bearing and range to the waypoint that is next. I will never dive. If you do not cntrl-c the glider out of this mission it will just loop indefinitely as above. Compare what it says to where you want the glider to next go to.
7. Once you have validated the new goto file using CHKWPTS.mi, cntrl-C out of that mission and Run the new mmlt mission.
8. Once the glider dives, reset the script in preparation for the next surfacing.

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This stuff is incorrect [Alan]:

1. If desired, pause scripts using Glider Terminal.
2. If scripts aren’t paused, there may be a significant delay while files are transferred.
3. When the glider surfaces, enter ctrl-c several times until a GliderDos prompt is seen.
4. Following the procedures in the ‘**Transferring Files To and From Glider’** document send the revised goto\_l10.ma file using dockzr.
5. After the file has been successfully transmitted, run the new mission.
6. Enable paused scripts if necessary.